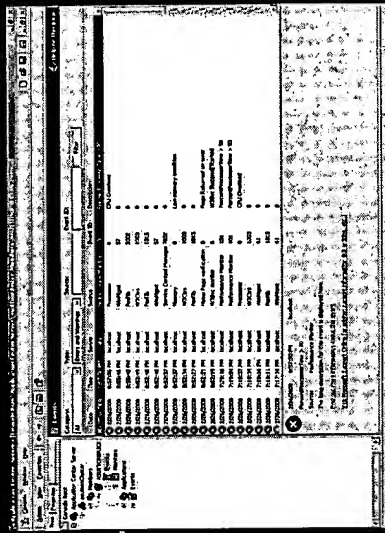
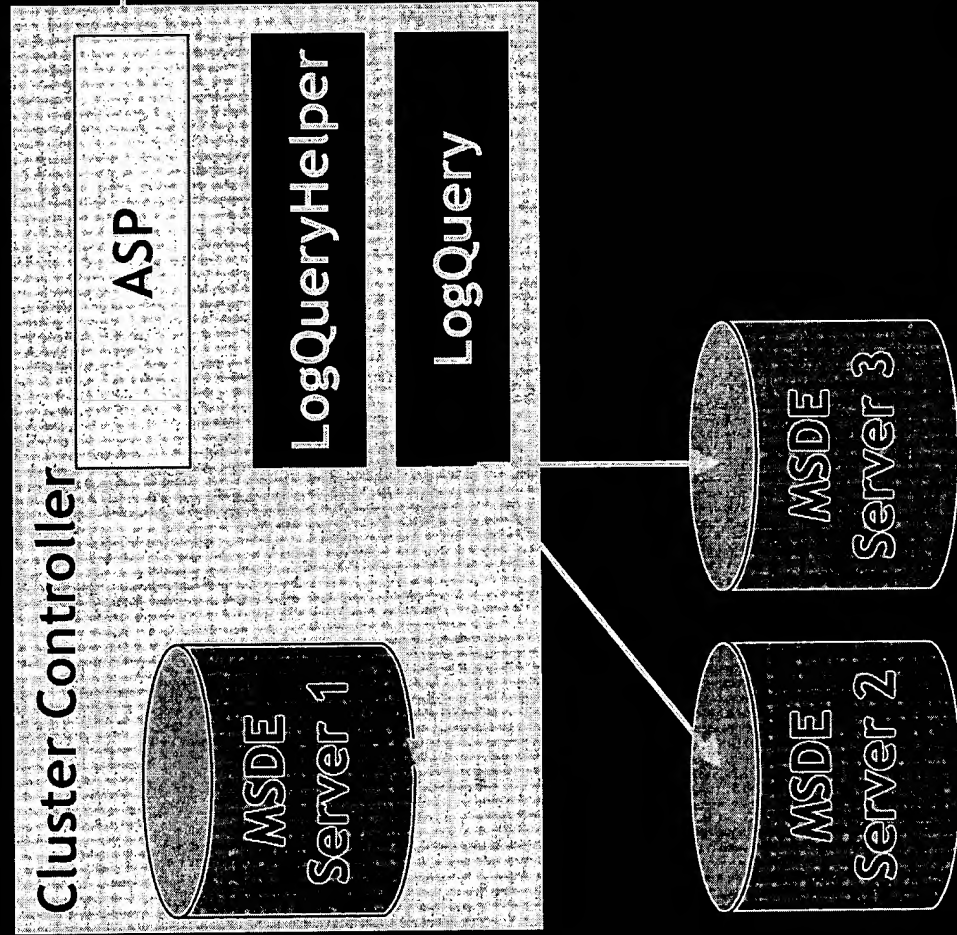


Distributed Query Architecture



Category	Subcategory	Value
CPU	CPU0	0.00%
	CPU1	0.00%
	CPU2	0.00%
	CPU3	0.00%
Memory	Mem0	0.00%
	Mem1	0.00%
	Mem2	0.00%
	Mem3	0.00%
Disk	Disk0	0.00%
	Disk1	0.00%
	Disk2	0.00%
	Disk3	0.00%
Network	Net0	0.00%
	Net1	0.00%
	Net2	0.00%
	Net3	0.00%



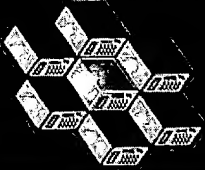
1. Parse Query
2. Run Query
3. Aggregate and Format Results
4. Return to UI

EXHIBIT B

Application Center 2000

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Best Available Copy



Eventing
Logging
Monitoring

Event Viewer

Application Center Server - [Console Root\Application Center Server\asutunbr\Cluster Members\ASUTUNBR\CLX\AS\Events]

Tree View Favorites

- Console Root
 - Application Center Server
 - asutunbr
 - Cluster Members
 - ASUTUNBR
 - Events
 - Monitors
 - Applications
 - Events

Events

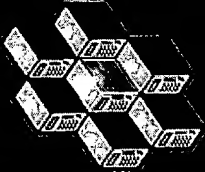
Category: All | Type: Errors and Warnings | Source: Performance Monitor | Event ID: 101 | Description: PercentProcessorTime > 90

Date	Time	Source	Event ID	Description
2/26/2000	8:57:50 PM	Performance Monitor	101	CPU Overload
2/26/2000	8:57:50 PM	Processor	0	
2/26/2000	8:55:46 PM	WinMgmt	37	0
2/26/2000	8:55:42 PM	localhost	2002	0
2/26/2000	8:55:42 PM	localhost	1003	0
2/26/2000	8:52:49 PM	W3Cts	1003	0
2/26/2000	8:52:48 PM	localhost	1015	0
2/26/2000	8:52:48 PM	PerfLib	1015	0
2/26/2000	8:52:46 PM	WinMgmt	37	0
2/26/2000	8:52:37 PM	Service Control Manager	7032	0
2/26/2000	8:52:37 PM	localhost	0	Low memory condition
2/26/2000	8:52:37 PM	Memory	0	
2/26/2000	8:52:34 PM	W3Cts	1003	0
2/26/2000	8:52:27 PM	PerfLib	1015	0
2/26/2000	8:52:21 PM	Help Page Verification	0	
2/26/2000	8:52:19 PM	W3SVC	0	Page Returned an error
2/26/2000	8:52:19 PM	W3SVC	0	W3SVC Stopped/Started
2/26/2000	7:28:16 PM	Performance Monitor	101	PercentProcessorTime > 90
2/26/2000	7:19:54 PM	Performance Monitor	101	PercentProcessorTime > 90
2/26/2000	7:18:37 PM	Processor	0	CPU Overload
2/26/2000	7:18:34 PM	localhost	1003	0
2/26/2000	7:18:34 PM	W3Cts	1003	0
2/26/2000	7:18:16 PM	WinMgmt	61	0
2/26/2000	7:18:11 PM	PerfLib	1015	0
2/26/2000	7:17:16 PM	WinMgmt	61	0
2/26/2000	8:57:50 PM	localhost		

Source: Performance Monitor
The long description for this event is displayed here.
Find out more information about this event.
Visit Microsoft Support Online for related support information (KB articles, etc.)

Application Center 2000

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Application Center 2000

Eventing

Logging

Monitoring


Events: List View

- Sorted by Date
- Severity
- Server
- Source
- Event ID
- Description

Help on this page

Events

Category	Type	Source	Event ID	Description	Filter
All	Errors and Warnings	Performance Monitor	101	PercentProcessorTime > 50	
Date	Time	Server	Source	Event ID	Description
2/26/2000	8:57:50 PM	localhost	Processor	0	CPU Overload
2/26/2000	8:57:50 PM	localhost	WinMgmt	37	0
2/26/2000	8:55:42 PM	localhost	PerfLib	2002	0
2/26/2000	8:52:49 PM	localhost	W3Cts	1000	0
2/26/2000	8:52:48 PM	localhost	PerfLib	1015	0
2/26/2000	8:52:46 PM	localhost	WinMgmt	37	0
2/26/2000	8:52:37 PM	localhost	Service Control Manager	7032	0
2/26/2000	8:52:37 PM	localhost	Memory	0	Low memory condition
2/26/2000	8:52:34 PM	localhost	W3Cts	1003	0
2/26/2000	8:52:27 PM	localhost	PerfLib	1015	0
2/26/2000	8:52:21 PM	localhost	Home Page Verification	0	Page returned an error
2/26/2000	8:52:19 PM	localhost	W3SVC Monitor	0	W3SVC Stopped/Started
2/26/2000	7:28:16 PM	localhost	Performance Monitor	101	PercentProcessorTime > 50
2/26/2000	7:19:54 PM	localhost	Performance Monitor	101	PercentProcessorTime > 90
2/26/2000	7:18:37 PM	localhost	Processor	0	CPU Overload
2/26/2000	7:18:34 PM	localhost	W3Cts	1000	0
2/26/2000	7:18:16 PM	localhost	WinMgmt	61	0
2/26/2000	7:18:11 PM	localhost	PerfLib	1015	0
2/26/2000	7:17:16 PM	localhost	WinMgmt	61	0



2/26/2000 8:57:50 PM

PercentProcessorTime > 90

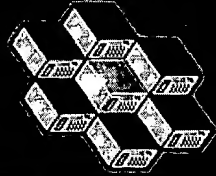
Source: Performance Monitor

The long description for the event is displayed here.

Find out more information about this event.

Visit Microsoft Support Online for related support information (KB articles, etc.).

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Events: Details

2/26/2000 8:57:50 PM

localhost

PercentProcessorTime > 90

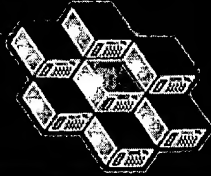
Source: Performance Monitor

The long description for this event is displayed here.

Find out more information about this event.

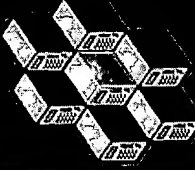
Visit Microsoft Support Online for related support information (KB articles, etc.)

- Severity, date, time, server
- Description
- Category, subcategory
- Long Message
- Links to help and support



Cluster Event Rollup

- Rollup in LogQueryHelper
 - Events aggregated across the cluster
 - Sorted by time
- Creates virtual record set
 - Paging in the uses same query
 - Pass GUID of last record seen as bookmark
 - Page up, down, top, bottom
- Unreachable server is "soft error"
 - Available data returned with an error



Eventing

Logging

Monitoring

Performance Viewer

In Application Center Server - [Console Root\Application Center Server\asutntonCluster]

Console Window Help

Action View Favorites

Tree Favorites

Console Root

- Application Center Server
 - asutntonCluster
 - Members
 - ASUTTONBRICK1AS
 - Events
 - Monitors
 - asutntonbrd2as
 - Events
 - Monitors
 - asutntonCluster
 - Applications
 - Events

asutntonCluster

Edit Cluster IP Addresses Synchronize the cluster Refresh

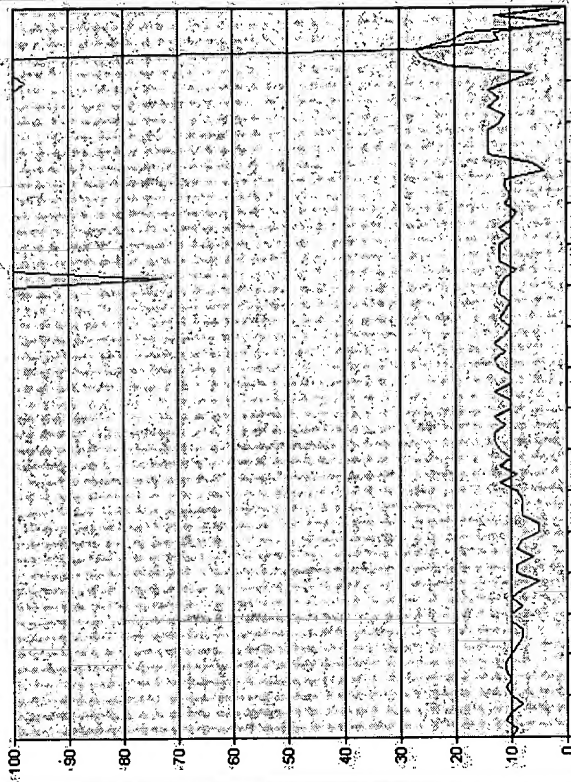
Cluster Performance

Server Status

- ASUTTONBRICK1AS Online, Alive
- asutntonbrd2as Online, Alive

Synchronization

- ASUTTONBRICK1AS Unknown
- asutntonbrd2as Success
- asutntonCluster Unknown



Color	Name	Min	Max	Average	Last	Scale
—	Processor Utilization	12.6938425	12.6938425	96.0221044	0	1
—	Memory Available Bytes	12193792	12193792	10796497.4	0	0

Add Remove

Done

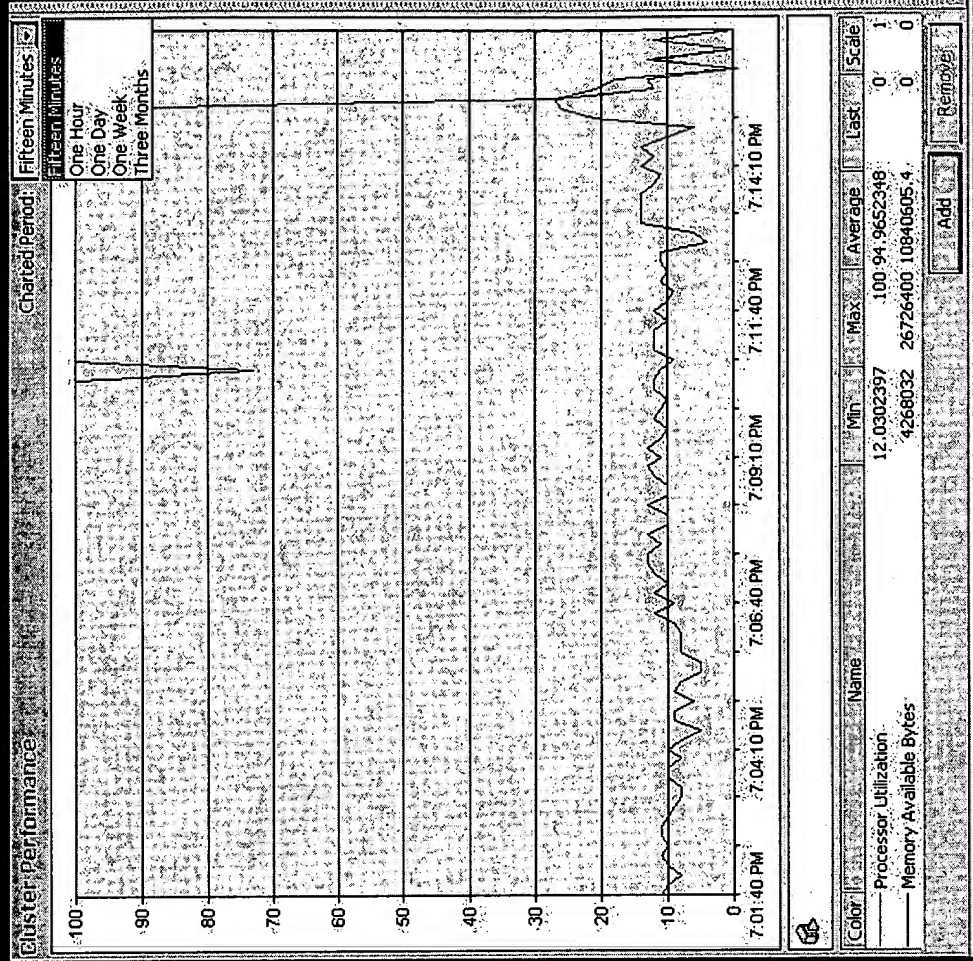
Application Center 2000

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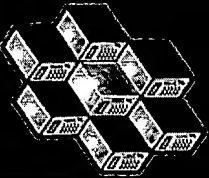


Performance Viewer

- Add Counters
- Time periods
 - 15 minutes
 - 1 hour
 - 1 day
 - 1 week
 - 3 months
- Auto scaling
- Default counters
- Persist selection



Application Center 2000

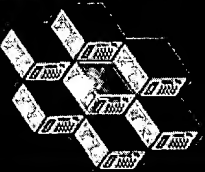


Performance Viewer Cluster Rollup

- Aggregation method in counter configuration
 - 0 - None
 - 1 - Average of Values
 - 2 - Sum of Values
 - 3 - Last Value
 - 4 - Min Value
 - 5 - Max Value
- Cumulative counters reset to 0 each session
 - Different from perfmon
 - Growth vs. spikes
- Can't show one counter across server



Health Monitor Console





Application Center 2000

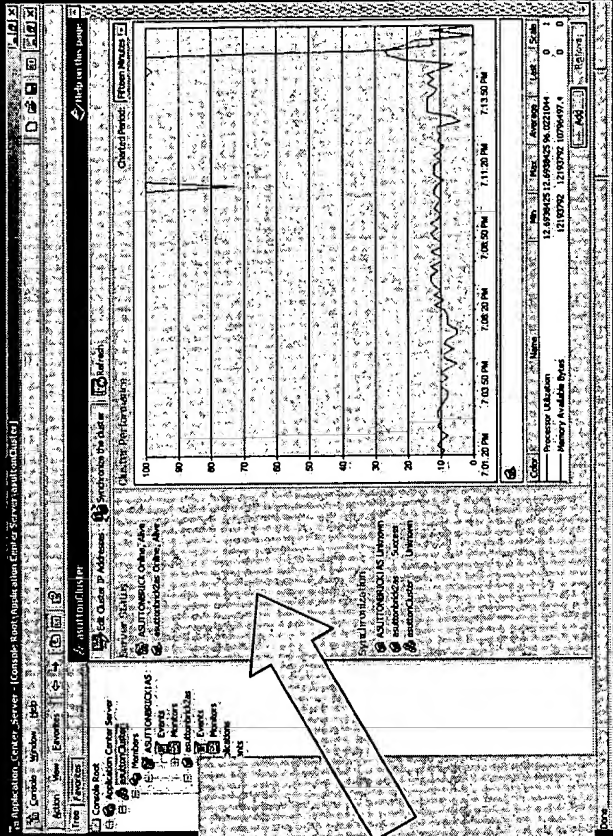
Eventing Logging Monitoring

Server Health Rollup

- Top-level view of server health
 - System status from HealthMon
 - Not the online/offline group

Server Status

 ASUTONBRICK Online, Alive
 asutonbrick2as Online, Alive



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